In the Claims:

Please cancel claims 2, 3, 7, 8, 12 and 13, without prejudice.

Please amend claims 1, 6 and 11 as follows:

1. (Currently amended) An information recording/reading apparatus that reads information from a recording medium at a timing synchronized with a read signal by reproducing a clock used when recording the information with timing reproduction data, comprising:

a signal delay unit that delays signal data read from the recording medium for a predetermined time, the signal data having ~~the~~ timing reproduction data that is split and recorded in the recording medium by setting a middle portion of the timing reproduction data as an area for recording the information; and

a frequency offset detecting unit that detects, during the predetermined time, a frequency offset that is a frequency difference between a clock of the read signal and an operation clock of the information recording/reading apparatus using the timing reproduction data that is split and recorded in the recording ~~medium.~~medium;

wherein the timing reproduction data is cyclic waveform data divided into a plurality of blocks,

a phase of the timing reproduction data that is split and recorded in the recording medium is continuous, and

the frequency offset detecting unit detects the frequency offset based on a difference between a phase difference of a cyclic waveform of a leading block from a reference waveform and a phase difference of a cyclic waveform of an ending block from the reference waveform.

2-3. (Cancelled)

4. (Original) The information recording/reading apparatus according to of claim 1, further comprising:

a recording unit that splits the timing reproduction data and records the timing reproduction data split in the recording medium.

5. (Original) The information recording/reading apparatus according to claim 1, wherein sync data for recognizing a leading position of the information and the information are recorded between the timing reproduction data that is split and recorded in the recording medium.

6. (Currently amended) An information recording/reading circuit that reads information from a recording medium at a timing synchronized with a read signal by reproducing a clock used when recording the information with timing reproduction data, comprising:

a signal delay circuit that delays signal data read from the recording medium for a predetermined time, the signal data having the timing reproduction data that is split and recorded in the recording medium by setting a middle portion of the timing reproduction data as an area for recording the information; and

a frequency offset detecting circuit that detects, during the predetermined time, a frequency offset that is a frequency difference between a clock of the read signal and an operation clock of the information recording/reading circuit using the timing reproduction data that is split and recorded in the recording ~~medium.~~medium;

wherein the timing reproduction data is cyclic waveform data divided into a plurality of blocks,

a phase of the timing reproduction data that is split and recorded in the recording medium is continuous; and

the frequency offset detecting unit detects the frequency offset based on a difference between a phase difference of a cyclic waveform of a leading block from a reference waveform and a phase difference of a cyclic waveform of an ending block from the reference waveform.

7-8. (Cancelled)

9. (Original) The information recording/reading circuit according to of claim 6, further comprising:

a recording circuit that splits the timing reproduction data and records the timing reproduction data split in the recording medium.

10. (Original) The information recording/reading circuit according to claim 6, wherein sync data for recognizing a leading position of the information and the information are recorded between the timing reproduction data that is split and recorded in the recording medium.

11. (Currently amended) An information recording/reading method to read information from a recording medium at a timing synchronized with a read signal by reproducing a clock used when recording the information with timing reproduction data, comprising:

delaying signal data read from the recording medium for a predetermined time, the signal data having the timing reproduction data that is split and recorded in the recording medium by setting a middle portion of the timing reproduction data as an area for recording the information; and

detecting, during the predetermined time, a frequency offset that is a frequency difference between a clock of the read signal and an operation clock of the information recording/reading apparatus using the timing reproduction data that is split and recorded in the recording ~~medium.~~medium;

wherein the timing reproduction data is cyclic waveform data divided into a plurality of blocks,

a phase of the timing reproduction data that is split and recorded in the recording medium is continuous; and

the frequency offset detecting unit detects the frequency offset based on a difference between a phase difference of a cyclic waveform of a leading block from a reference waveform and a phase difference of a cyclic waveform of an ending block from the reference waveform.

12-13. (Cancelled)

14. (Original) The information recording/reading method according to of claim 11, further comprising:

splitting the timing reproduction data; and

recording the timing reproduction data split in the recording medium.

15. (Original) The information recording/reading method according to claim 11, wherein sync data for recognizing a leading position of the information and the information are recorded between the timing reproduction data that is split and recorded in the recording medium.